

Rating Chart

RATING CHART OF F-270 SERIES COMPRESSOR @1450 RPM					
		35 °C Condensing Temperature		40 °C Condensing Temperature	
		Capacity Kw (TR)	Ab. Power kW (BHP)	Capacity Kw (TR)	Ab. Power kW (BHP)
Refrigerant		Ammonia NH3			
272	5	75.15 (21.36)	11.48 (15.39)	71.27 (20.25)	12.93 (17.33)
	0	59.41 (16.88)	11.27 (15.12)	56.05 (15.93)	12.31 (16.50)
	-5	46.60 (13.24)	10.75 (14.42)	43.56 (12.38)	11.58 (15.53)
	-10	35.53 (10.10)	9.97 (13.37)	32.82 (9.33)	10.55 (14.14)
	-15	26.46 (7.52)	9.01 (12.08)	24.07 (6.84)	9.34 (12.52)
	-20	18.96 (5.39)	7.91 (10.61)	16.88 (4.80)	8.04 (10.78)
274	5	150.67 (42.82)	21.99 (29.49)	143.09 (40.66)	24.59 (32.97)
	0	119.19 (33.87)	21.58 (28.93)	112.45 (31.96)	23.55 (31.58)
	-5	93.50 (26.57)	20.54 (27.54)	87.50 (24.86)	22.10 (29.63)
	-10	71.17 (20.23)	19.09 (25.60)	65.84 (18.71)	20.12 (26.99)
	-15	53.09 (15.09)	17.22 (23.09)	48.39 (13.75)	17.84 (23.93)
	-20	38.15 (10.84)	15.15 (20.31)	33.86 (9.62)	15.35 (20.59)
276-42	-25	48.94 (13.91)	19.90 (26.68)	48.07 (13.66)	21.16 (28.37)
	-30	38.43 (10.92)	18.15 (24.34)	37.75 (10.73)	19.22 (25.77)
	-35	29.77 (8.46)	16.40 (22.00)	29.19 (8.30)	17.28 (23.17)
	-40	22.57 (6.41)	14.75 (19.78)	22.09 (6.28)	15.53 (20.82)
	-45	16.93 (4.81)	13.10 (17.57)	16.44 (4.67)	13.78 (18.48)
Refrigerant		R22			
272	5	71.62 (20.35)	11.7 (15.67)	67.40 (19.15)	12.82 (17.20)
	0	58.96 (16.76)	11.38 (15.25)	55.27 (15.71)	12.31 (16.50)
	-5	47.99 (13.64)	10.86 (14.56)	44.62 (12.68)	11.58 (15.53)
	-10	38.02 (10.80)	10.18 (13.65)	35.09 (9.97)	10.65 (14.28)
	-15	29.87 (8.49)	9.29 (12.45)	27.26 (7.75)	9.56 (12.81)
	-20	22.77 (6.47)	8.26 (11.08)	20.47 (5.82)	8.35 (11.19)
274	5	143.69 (40.83)	22.30 (29.91)	135.33 (38.46)	24.48 (32.83)
	0	118.29 (33.62)	21.78 (29.21)	110.78 (31.48)	23.44 (31.44)
	-5	96.29 (27.36)	20.85 (27.96)	89.62 (25.47)	22.10 (29.63)
	-10	76.38 (21.70)	19.40 (26.01)	70.51 (20.04)	20.33 (27.27)
	-15	59.93 (17.03)	17.74 (23.79)	54.69 (15.54)	18.26 (24.48)
	-20	45.79 (13.01)	15.77 (21.14)	41.07 (11.67)	15.98 (21.42)
276-42	-25	49.85 (14.16)	23.20 (31.11)	49.16 (13.97)	24.56 (32.93)
	-30	41.26 (11.73)	21.84 (29.29)	40.68 (11.56)	23.00 (30.85)
	-35	33.75 (9.59)	20.29 (27.20)	33.26 (9.45)	21.26 (28.50)
	-40	27.21 (7.73)	18.64 (24.99)	26.82 (7.62)	19.51 (26.16)
	-45	21.65 (6.15)	16.89 (22.65)	21.36 (6.07)	17.66 (23.69)
Refrigerant		R-290 (Propane)			
272	5	57.34 (16.29)	10.44 (14.01)	53.58 (15.23)	11.48 (15.39)
	0	47.42 (13.47)	10.29 (13.80)	44.08 (12.53)	11.07 (14.84)
	-5	38.75 (11.01)	9.89 (13.26)	35.82 (10.18)	10.44 (14.01)
	-10	31.07 (8.83)	9.30 (12.47)	28.48 (8.09)	9.71 (13.02)
	-15	24.53 (6.97)	8.56 (11.48)	22.24(6.32)	8.80 (11.80)
	-20	18.91 (5.38)	7.69 (10.32)	16.84 (4.78)	7.77 (10.41)
274	5	115.04 (32.69)	20.02 (26.85)	107.50 (30.55)	21.99 (29.49)
	0	95.13 (27.03)	19.71 (26.43)	88.43 (25.13)	21.16 (28.38)
	-5	77.74 (22.09)	18.88 (25.32)	71.87 (20.42)	20.02 (26.85)
	-10	62.34 (17.72)	17.74 (23.79)	57.13 (16.23)	18.57 (24.90)
	-15	49.21 (13.98)	16.39 (21.98)	44.62 (12.68)	16.80 (22.54)
	-20	37.95 (10.78)	14.73 (19.75)	33.78 (9.60)	14.83 (19.89)
276-42	-25	42.45 (12.06)	20.19 (27.07)	41.86 (11.90)	21.35 (28.63)
	-30	35.58 (10.11)	19.22 (25.77)	35.00 (9.95)	20.29 (27.20)
	-35	29.60 (8.41)	18.05 (24.21)	29.11 (8.27)	18.93 (25.38)
	-40	24.31 (6.91)	16.79 (22.52)	23.82 (6.77)	17.57 (23.56)
	-45	19.70 (5.60)	15.43 (20.69)	19.31 (5.49)	16.11 (21.61)
Refrigerant		R-134a			
272	5	43.98 (12.50)	8.16 (10.94)	40.63 (11.54)	8.67 (11.62)
	0	34.97 (9.94)	7.72 (10.36)	32.04 (9.10)	8.07 (10.82)
	-5	27.22 (7.74)	7.15 (9.58)	24.71 (7.02)	7.33 (9.83)
	-10	20.73 (5.89)	6.45 (8.65)	18.44 (5.24)	6.50 (8.72)
	-15	15.32 (4.35)	5.66 (7.59)	13.34 (3.79)	5.58 (7.49)
	-20	10.73 (3.05)	4.80 (6.43)	9.07 (2.58)	4.61 (6.18)
274	5	88.33 (25.10)	16.39 (21.98)	81.50 (23.16)	17.43 (23.37)
	0	70.06 (19.91)	15.46 (20.73)	64.17 (18.24)	16.18 (21.70)
	-5	54.72 (15.55)	14.32 (19.20)	49.57 (14.09)	14.73 (19.75)
	-10	41.49 (11.79)	12.97 (17.39)	37.00 (10.51)	13.07 (17.53)
	-15	30.62 (8.70)	11.31 (15.16)	26.76 (7.60)	11.20 (15.02)
	-20	21.53 (6.12)	9.63 (12.91)	18.19 (5.17)	9.24 (12.39)
276-42	-25	30.21 (8.58)	14.27 (19.13)	29.53 (8.39)	15.04 (20.17)
	-30	24.30 (6.91)	13.30 (17.83)	23.82 (6.77)	13.88 (18.61)
	-35	19.27 (5.47)	12.23 (16.40)	18.78 (5.34)	12.81 (17.18)

Specifications

DESCRIPTION	F-272	F-274	F-276-42
Number of Cylinders	2	4	4 LS / 2 HS
Maximum RPM (RPM)	1450	1450	1450
Bore & Stroke (Inch) (mm)	3 1/4 x 2 3/4 82.55 x 69.85	3 1/4 x 2 3/4 82.55 x 69.85	3 1/4 x 2 3/4 82.55 x 69.85
Swept Volume [CFM (m3/hr)]	39 (66.39)	78.15 (132.78)	78.15 (132.78)
Suction Connection [in. (mm)]	2 (50)	3 (80)	3 (80)
Discharge Connection [in. (mm)]	1 1/2 (40)	2 (50)	2 (50)
Unit Wt Less Motor [Lbs. (kg)]	441 (200)	661 (300)	771(350)
Oil Charge [Gallons (Ltrs.)]	4.3(16)	5.3 (20)	5.3 (20)
Standard Steps (%) of Unloading	0	50/100	50/100

*Rated capacities @1450 RPM